PA. INT COOPERATION TREAT

To:

From the	INTERNATIONAL	BUREAU
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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24

Arlington, VA 22202 ETATS-UNIS D'AMERIQUE

Date of mailing:

11 January 2001 (11.01.01)

International application No.:
PCT/US00/17648

International filing date:
27 June 2000 (27.06.00)

Applicant:

VENKATESWARAN, Ananthanarayan et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International preliminary Examining Authority on:
	30 August 2000 (30.08.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer:

J. Zahra

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

INTERNATIONAL SEARCH REPORT Information patent family members

PCT/Se 00/17648

				101/00 00/1/040
	itent document I in search report		Publication date	Patent family Publication member(s) date
US	4529586	A	16-07-1985	AU 6081680 A 26-02-1981 CA 1162859 A 28-02-1984 DE 3029306 A 12-03-1981 DK 360680 A 24-02-1981 FI 802631 A 24-02-1981 FR 2463612 A 27-02-1981 GB 2058103 A 08-04-1981 GR 69885 A 20-07-1982 IT 1145700 B 05-11-1986 NL 8004710 A 25-02-1981 NO 802492 A 24-02-1981 SE 8005886 A 24-02-1981
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GB	2303857	Α	05-03-1997	DE 19629621 A 30-01-1997 FR 2737213 A 31-01-1997 JP 9137062 A 27-05-1997
WO	9818434	A	07-05-1998	AU 4918597 A 22-05-1998 BR 9712678 A 26-10-1999 CN 1239879 A 29-12-1999 EP 0955990 A 17-11-1999
EP	0460683	Α	11-12-1991	CA 2042693 A 08-12-1991 JP 4270209 A 25-09-1992
WO	9819655	A	14-05-1998	AU 7666996 A 29-05-1998 BR 9612766 A 07-12-1999 EP 0946131 A 06-10-1999 JP 11500461 T 12-01-1999
US	5326483	Α	05-07-1994	NONE
JP	02243615	Α	27-09-1990	JP 2758919 B 28-05-1998
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PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.		
AA411M/VB International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
DCT /UC 00/17640	-	02/07/1000		
PCT/US 00/17648	27/06/2000	02/07/1999		
Applicant				
THE PROCTER & GAMBLE COMPA	ANY			
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.				
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.		
Basis of the report				
	international search was carried out on the bas less otherwise indicated under this item.	is of the international application in the		
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this		
 With regard to any nucleotide and was carried out on the basis of the 		ternational application, the international search		
	nal application in written form.			
filed together with the inte	rnational application in computer readable form	1.		
furnished subsequently to	this Authority in written form.			
furnished subsequently to	this Authority in computer readble form.			
	sequently furnished written sequence listing do s filed has been furnished.	pes not go beyond the disclosure in the		
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been		
2. Certain claims were four	nd unsearchable (See Box I).			
3. Unity of invention is laci	king (see Box II).			
4. With regard to the title,				
the text is approved as su	bmitted by the applicant.			
the text has been establish	hed by this Authority to read as follows:			
		·		
E With report to the state of				
 With regard to the abstract, the text is approved as suitable. 	hmitted by the applicant			
the text has been establish	brifficed by the applicant. hed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep			
6. The figure of the drawings to be publi	ished with the abstract is Figure No.			
as suggested by the applic	cant.	None of the figures.		
because the applicant faile	ed to suggest a figure.			
because this figure better	characterizes the invention.			

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K7/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{A61K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 4 529 586 A (R. DE MARCO ET AL) 16 July 1985 (1985-07-16) claim 1; examples 5,6	1,7
A	EP 0 445 982 A (DOW CORNING) 11 September 1991 (1991-09-11) claim 1; examples 4,5	1
A	GB 2 303 857 A (GEN ELECTRIC) 5 March 1997 (1997-03-05) cited in the application claim 1	1
Α	WO 98 18434 A (PROCTER & GAMBLE) 7 May 1998 (1998-05-07) claim 1/	1

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
10 October 2000	19/10/2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Voyiazoglou, D

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INTERNATIONAL SEARCH REPORT

PCT/SO0/17648

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Determine deter No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
A	EP 0 460 683 A (DOW CORNING) 11 December 1991 (1991-12-11) cited in the application claim 1	10
A	WO 98 19655 A (PROCTER & GAMBLE) 14 May 1998 (1998-05-14) page 27; claim 1	
A	US 5 326 483 A (HALLORAN DANIEL J ET AL) 5 July 1994 (1994-07-05) claims 1,6,7	1,10
Α	PATENT ABSTRACTS OF JAPAN vol. 014, no. 562 (C-0788), 13 December 1990 (1990-12-13) & JP 02 243615 A (TOYO BIYUUT KK), 27 September 1990 (1990-09-27) abstract	1
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 05, 30 April 1998 (1998-04-30) & JP 10 007534 A (KOSE CORP), 13 January 1998 (1998-01-13) abstract	

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PATENT COOPERATION TREATY

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REC'D 11 SEP 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference		See Notification of Transmittal of International
AA411M/VB		FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)
International application No.		International filing date (day/month	n/year) Priority date (day/month/year)
PCT/US	00/17648	27/06/2000	02/07/1999
Internation A61K7/0	al Patent Classification (IPC) or na 6	ational classification and IPC	
Applicant			
THE PR	OCTER & GAMBLE COMP	ANY	
1. This and is	international preliminary exams s transmitted to the applicant a	nination report has been prepared according to Article 36.	by this International Preliminary Examining Authority
2. This	REPORT consists of a total of	7 sheets, including this cover sl	neet.
b	een amended and are the bas	d by ANNEXES, i.e. sheets of the sis for this report and/or sheets coor of the Administrative Instruction	e description, claims and/or drawings which have ontaining rectifications made before this Authority ons under the PCT).
			she didest the 1 exp.
rnes	e annexes consist of a total of	sneets.	
3. This r	report contains indications rela	ating to the following items:	
1	☑ Basis of the report		
11	☐ Priority		
111	Non-establishment of o	pinion with regard to novelty, inv	entive step and industrial applicability
IV	Lack of unity of invention	on	
V	Reasoned statement up	nder Article 35(2) with regard to rons suporting such statement	novelty, inventive step or industrial applicability;
VI	☐ Certain documents cite		
VII	□ Certain defects in the ir	nternational application	
VIII	_	n the international application	
Date of submission of the demand			completion of this report
30/08/20	00	07.09.20	01
	mailing address of the international examining authority:	I Authorize	ed officer
	European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656	Culmar	nn, J-C
	Fax: +49 89 2399 - 4465	•	ie No. +49'89 2399 8487

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/17648

l. Bas	is of	the	repo	rt
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1.	1. With regard to the elements of the international application (Replacement sheets which have been furnished the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:			
	1-3	31	as originally filed	
	Cla	aims, No.:		
	1-1	0	as originally filed	
2.	Wit lan	h regard to the lang guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.	
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:	
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).	
		the language of pu	blication of the international application (under Rule 48.3(b)).	
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule	
3.	Wit	h regard to any nuc rnational preliminan	leotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:	
		contained in the int	ernational application in written form.	
		filed together with t	he international application in computer readable form.	
		furnished subseque	ently to this Authority in written form.	
		furnished subseque	ently to this Authority in computer readable form.	
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.	
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.	
4.	The	amendments have	resulted in the cancellation of:	
		the description,	pages:	
		the claims,	Nos.:	
		the drawings,	sheets:	
5.			on established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/17648

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-10

No:

Claims

Inventive step (IS)

Yes:

Claims

No:

Claims 1-10

Industrial applicability (IA)

Yes: No: Claims 1-10

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

HarCor#2

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability

The following document is referred to in this communication:

D1 US-A-4 529 586

- 1. The problem faced by the Applicant is the provision of hair conditioning compositions which provide hair volume-up while not deteriorating conditioning benefits such as softness, moisturized feel, and fly-away control (see on page 2 of the present description).
- 2. D1 relates to hair conditioning compositions which compulsorily comprise:
 - i) 0.2 to 10% of a cationic silicone emulsion;
 - which comprises "a cationic surfactant such as long chain fatty acid quaternary ammonium compound such as stearylkonium chloride or tallowtrimonium chloride (see D1 at column 2 lines 16 et seq.);
 - in combination with amodimethicone;
 - ii) a cationic surfactant;
 - iii) one cationic polymer;
 - iv) an aqueous carrier.
- 3. The subject-matter of current claim 1 differs from the compositions according to claim 1 of D1 in that:
 - the cationic silicone emulsion comprises
 - 1 to 20% of a cationic surfactant;
 - the emulsified silicone has a particle size of less than 50µm;
 - ii) it comprises 0.1 to 15% of a high melting point (at least 25°C) fatty compound:

- iii) the cationic conditioning agent is present in an amount of 0.1 to 10%.
- 4. It appears that the cationic surfactant found in the cationic silicone emulsion as defined in D1 may be calculated: since it represents about 0.1 to 0.2 by weight of the total composition (see D1 at column 2 lines 27-28), while said emulsion is introduced in a minimum amount of 1.6%by weight (see D1 the examples), it is inferred that the emulsion comprises 6.25 to 12.5% by weight of cationic surfactant.

The cationic surfactant present in the compositions according to D1 (identified in the present application as a useful conditioning agent) is in an amount which "can suitably vary between from about 0.1 to about 1.5% by weight, based on the composition" (see D1 at column 6, lines 32 et seq.); the cationic polymer being present "between from about 0.005 to about 1% by weight based on the total weight of the aqueous composition" (see D1 at column 6, lines 29 et seq.).

As to the "high melting point fatty compound", it may be noted that it is present in some compositions of D1 (see V and VI); it is present in the claimed composition for its (obviously) known properties, i.e. slippery, slick feel, softness, moisturized feel, fly-away control on dry hair). From the description of the present application. it may be concluded that, alone, this component cannot impart the hair volume-up aimed at by the Applicant.

- 5. As a consequence of the analysis above, two possibilities:
 - i) the compositions according to D1 already achieved the hair volume-up aimed at by the Applicant, who had not to modify or adapt the composition of the prior art in order to achieve said property; the modifications/adaptions that the Applicant carried out addressed other considerations, which are not found in the current application, or not solved in any unexpected way; then the subject-matter of claim 1 lacks an inventive step in the sense that it does not solve the problem identified;
 - ii) the claimed compositions achieve hair volume-up whereas those according to

EXAMINATION REPORT - SEPARATE SHEET

D1 do not.

In the latter event, said hair volume-up achievement should result either from:

- i) the specific particle size of the emulsified silicone;
- ii) or from a synergy between any two (or more) of the components listed in current claim 1.

At this stage of the procedure, it must be noted that there is no experimental data which convincingly establish that the compositions as defined in current claim 1 provide some hair volume-up (which could thus be seen as a contribution over the compositions of the prior art in the sense of Article 33(3) PCT) whereas those according to D1 do not.

There is also no evidence from the application documents that, in the event when the claimed compositions make a contribution over the prior art, said contribution relates to i) the emulsified silicone particle size or ii) a synergy between some of the features recited in current claim 1.

6. The subject-matter of claim 1 thus lacks an inventive step in the sense of Article 33(3) PCT; as does the subject-matter of all the dependent claims, since said subject-matter relates to optional components of the compositions according to the present application.

VII. Certain defects in the international application.

The requirements of Rule 5.1 a) ii) PCT are not met, D1 being not identified in the description and the relevant background art disclosed therein being not briefly discussed.

In the Formula II (see on page 14) and IV (see on page 15) the indices a and b are not defined.

EXAMINATION REPORT - SEPARATE SHEET

VIII. Certain observations on the international application.

The subject-matter of claim 4 is not supported by the description.

As is the subject-matter of claim 5; if the Applicant intended to claim a composition with the amounts of cationic conditioning agent specified in said claim, then all the features appearing on page 26 as filed (see the last formulation) should have been retained.

As is also the subject-matter of claim 8, item (b): the weight of the trimethylol ester oils is therein specified to be "at least about 800" with no upper limitation, contrary to the disclosure of the present description (to about 1200), see on page 23.